

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A sound reproduction system comprising:

an audio processor with a filter arranged for applying a ~~first head related transfer function over a predetermined first frequency range~~ to an input audio signal from an audio signal

source, and yielding an output audio signal for a sound production means; ~~and~~

a first data source, ~~which is arranged for delivering for providing~~ first filter coefficients of ~~the a first head related transfer function over a first predetermined frequency range~~ to the filter; ~~and~~

~~characterized in that~~

a second data source ~~is comprised, which is arranged for delivering for providing~~ second filter coefficients of a second head related transfer function over a predetermined second frequency range, unequal to the first frequency range, to the filter for filtering the input audio signal yielding the output audio signal.

2. (Currently Amended) ~~A~~ ~~The~~ sound reproduction system as claimed in claim 1, characterized in that ~~characterized in that said sound reproduction system further comprises:~~

a microphone ~~is included for performing a sound measurement; and~~

... wherein the first data source comprises coefficient calculation means for calculating the first filter coefficients from the sound measurement; and

10 ... wherein the second data source comprises a memory for storing data related to the second head related transfer function filter.

3. (Currently Amended) ~~A~~ The sound reproduction system as claimed in claim 2, characterized in that

... the second data source comprises calculating means for calculating the second filter coefficients based on the data from  
5 stored in the memory.

4. (Currently Amended) A computer program for execution by a processor, describing a method of sound reproduction comprising the steps of:

... obtaining coefficients of a first head related transfer  
5 function over a first predetermined frequency range from a first data source;

... applying a filtering an input audio signal from an audio signal source using said coefficients of the first head related transfer function filtering to an input audio signal from an audio  
10 signal source, yielding to form an output audio signal;

characterized in that the computer program comprises further steps in its method of:

- obtaining coefficients of a second head related transfer function over a second predetermined frequency range, different  
15 ~~from said first predetermined frequency range,~~ from a second data source; and

- ~~applying a additionally filtering said input audio signal using said coefficients of the~~ second head related transfer function ~~filtering to an input audio signal from an audio signal~~  
20 ~~source, yielding an~~thereby forming said output audio signal.

5-7 (Cancelled).